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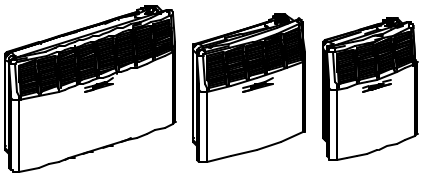
OWNER'S OPERATION AND INSTALLATION MANUAL FOR MODELS DVEL 8, DVEL 12, DVEL 20



GRAVITY DIRECT VENT WALL FURNACE

WARNING: If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

Do not store or use gasoline or other flammable vapours and liquids in the vicinity of this or any other appliance.

WHAT TO DO IF YOU SMELL GAS

- **Do not try to light any appliance.**
- **Do not touch any electrical switch; do not use any phone in your building.**
- **Immediately call your gas supplier from a neighbour's phone. Follow the gas supplier's instructions.**
- **If you cannot reach your gas supplier, call the fire department.**

Installation and service must be performed by a qualified installer, service agency or the gas supplier.

AVERTISSEMENT. Assurez-vous de bien suivre les instructions données dans cette notice pour réduire au minimum le risque d'incendie ou d'explosion ou pour éviter tout dommage matériel, toute blessure ou la mort.

Ne pas entreposer ni utilliser d'essence ni d'autres vapeurs ou liquides inflammables dans le voisinage de cet appareil ou de tout autre appareil.

QUE FAIRE SI VOUS SENTEZ UNE ODEUR DE GAZ:

- **Ne pas tenter d'allumer d'appareils.**
- **Ne touchez à aucun interrupteur. Ne pas vous servir des téléphones dans le bâtiment où vous vous trouvez.**
- **Appelez immédiatement votre fournisseur de gaz depuis un voisin. Suivez les instructions du fournisseur.**
- **Si vous ne pouvez rejoindre le fournisseur de gaz, appelez le service des incendies.**

L'installation et l'entretien doivent être assuré par un installeteur ou un service d'entretien qualifié ou par le fournisseur de gaz.

This appliance may be installed in an aftermarket, permanently located, manufactured home (USA only) or mobile home, where not prohibited by local codes.

This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases, unless a certified kit is used.

Cet appareil peut être installé dans une maison préfabriquée (É.-U. Seulement) ou mobile déjà installée à demeure si les règlements locaux le permettent.

Cet appareil doit être utilisé uniquement avec le type de gaz indiqué sur la plaque signalétique. Cet appareil ne peut être converti à d´autres gaz, sauf si une trousse de conversion est utilisée.

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This gas appliance must not be connected to a chimney flue serving a separate solid-fuel burning appliance.

IMPORTANT FOR YOUR SAFETY

- **Improper installation, adjustment, alteration, service, or maintenance can cause property damage, personal injury or loss of life. Refer to this manual.**
- **Installation and service must be performed by a qualified installer, service agency, or the gas supplier.**

Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

Ne pas se servir de cet appareil s'il a été plongé dans l'eau, complètement ou en partie. Faire inspector l'appareil par un technicien qualifié et remplacer toute partie du système de contrôle et toute commande qui ont été plongées dans l'eau.

PRODUCT IDENTIFICATION

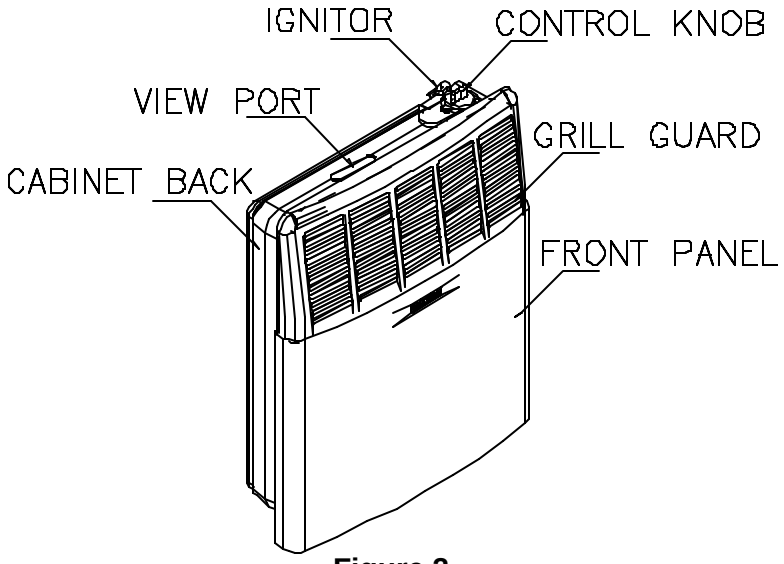


Figure 2

PRODUCT FEATURES

GAS SPECIFICATIONS

Model No.	Input Power * Btu/Hr. / (kW)	Max. Gas Inlet Pres. In. W.C. / (mm. W.C.)	Min. Gas Inlet Pres.** In. W.C. / (mm. W.C.)	Pres. Reg. Settings In. W.C. / (mm. W.C.)	Valve Type
DVEL 8N	**8,000 / (2.32)**	**10,5 / (267)**	**4,5 / (114)**	**3,5 / (89)**	**Manual (COPRECI 18700)**
DVEL 8L	**8,000 / (2.32)**	**14 / (355)**	**11 / (280)**	**10 / (254)**	**Manual (COPRECI 18700)**
DVEL 12N	**11,000 / (3.20)**	**10,5 / (267)**	**6,4 / (162)**	**5,4 / (137)**	**Thermostatic (SIT 630)**
DVEL 12L	**11,000 / (3.20)**	**14 / (355)**	**11 / (280)**	**10 / (254)**	**Thermostatic (SIT 630)**
DVEL 20N	**17,000 / (4.94)**	**10,5 / (267)**	**4,5 / (114)**	**3,3 / (84)**	**Thermostatic (SIT 630)**
DVEL 20L	**17,000 / (4.94)**	**14 / (355)**	**11 / (280)**	**10 / (254)**	**Thermostatic (SIT 630)**

*** REMARK**: Appliance input ratings are based on sea level operation and need not be changed for operation up to 2000 feet (609.9 m) elevation. For operation at elevation above 2000 feet (609.9 m) manufactured to specified deration conditions for Canada and the United States.

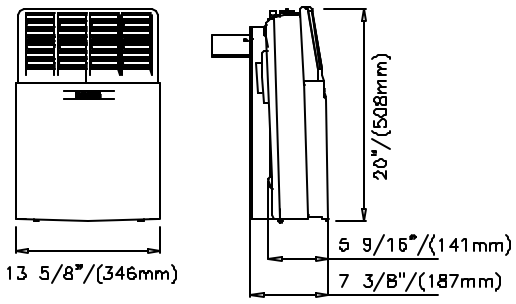
****NOTE**: Minimum Gas Inlet Pressure for purpose of input adjustment.

The efficiency rating of the appliance is a product thermal efficiency rating determined under continuous operating conditions and was determined independently of any installed system.

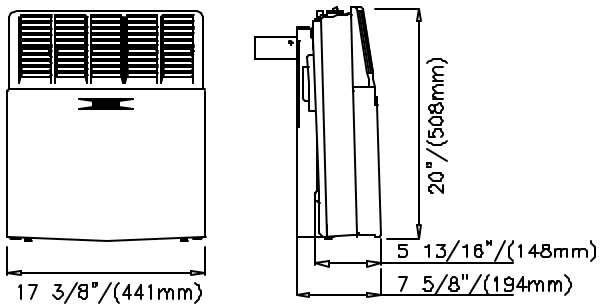
UNIT SPECIFICATIONS

Model No.	Dimensions Inch / (mm)		Weight Lbs. / (kg.)	Type of Burner	No. of Burners	Ignition	Standard Heating Space Square Feet / (m^2)
DVEL 8N DVEL 8L	Height: Width: Depth:	20 / (508) 13 5/8 / (346) 7 3/8 / (187)	27 / (12.2)	Atmospheric	1	Piezo-electric ignitor	200 / (18.6)
DVEL 12N DVEL 12L	Height: Width: Depth:	20 / (508) 17 3/8 / (441) 7 5/8 / (194)	33.7 / (15.3)	Atmospheric	1	Piezo-electric ignitor	275 / (25.6)
DVEL 20N DVEL 20L	Height: Width: Depth:	20 / (508) 27 3/8 / (695) 8 3/8 / (213)	48.7 / (22.1)	Atmospheric	2	Piezo-electric ignitor	425 / (39.5)

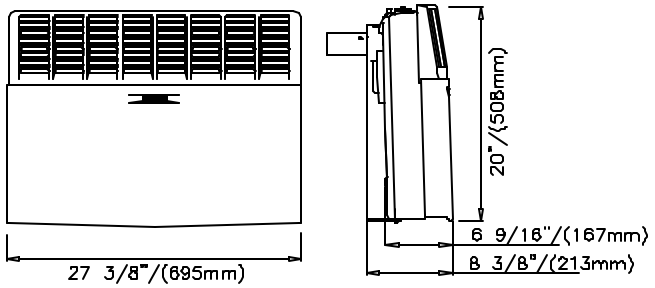
Model DVEL 8



Model DVEL12



Model DVEL 20



PRODUCT FEATURES (CONTINUED)

NOTICE

A qualified service person must install the heater. Follow all local codes.

CHECK GAS TYPE

Use only the type of gas indicated on the rating plate.

INSTALLATION

INSTALLATION ITEMS

Before installing heater, make sure you have the items listed below.

- Piping (check local codes)
- Sealant (resistant to propane gas)
- Manual shutoff valve
- Ground joint union
- Test gauge connection
- Sediment trap
- Tee joint
- Pipe wrench

The installation location shall provide the following;
a) adequate combustion and ventilation air, and
b) adequate accessibility clearances for servicing.

MINIMUM CLEARANCE FROM COMBUSTIBLE CONSTRUCTION

Rear..... 0 Inches/0mm (to bracket)
Sides..... 6 Inches/152mm
Top..... 36 Inches/914mm
Floor..... 6 Inches/152mm (to top of carpeting, tile, etc.)

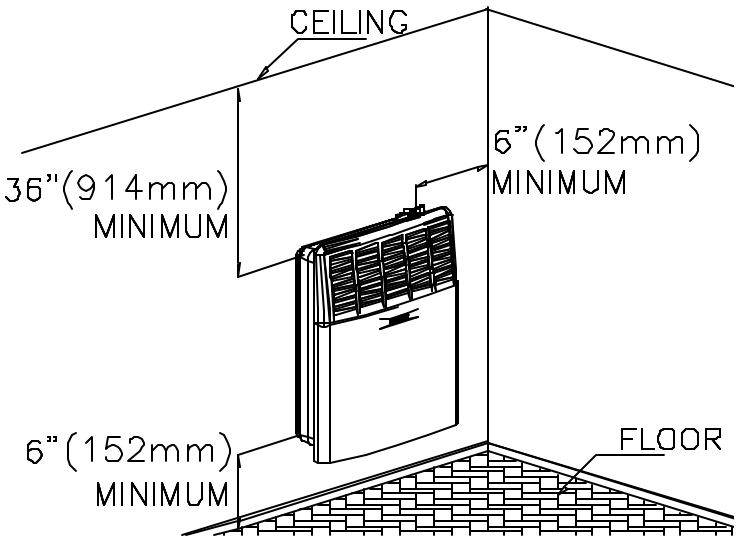


Figure 4

NOTICE: Maintain the minimum clearances shown in figure 4. If you can, provide greater clearances from floor, ceiling and adjoining wall.

INSTALLATION (CONTINUED)

This appliance may be installed in an aftermarket, permanently located, manufactured home (USA only) or mobile home, where not prohibited by local codes.

This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases, unless a certified kit is used.

IMPORTANT: This appliance should only be installed by a qualified installer.

The installation must conform with local codes or, in the absence of local codes, with the *National Fuel Gas Code, ANSI Z223.1, or Canadian Installation Code, CAN1-B149.*

Installer l'appareil selon les codes ou règlements locaux, ou en l'absence de tels règlements, selon les codes d'installation *Canadian Installation Code, CAN1-B149.*

A manufactured home (USA only) or mobile home OEM installation must conform with the *Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280*, or, when such standard is not applicable, the Standard for *Manufactured Home Installations, ANSI Z 225.1*, or Standard for *Gas Equipped Recreational Vehicles and Mobile Housing, CSA Z 240.4.*

IMPORTANT

- **The appliance area must be kept clear and free from combustible materials, gasoline, and other flammable vapors and liquids.**
- **Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.**
- **Children and adults should be alerted to the hazards of high surface temperature and should stay away to avoid burns or clothing ignition.**
- **Young children should be carefully supervised when they are in the same room as the appliance.**
- **Clothing or other flammable material should not be placed on or near the appliance.**
- **Any safety screen or guard removed for servicing an appliance must be replaced prior to operating the appliance.**

Installation and repair should be done by a qualified service person. The appliance should be inspected before use and at least annually by a qualified service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is imperative that control compartments, burners and circulating air passageways of the appliance be kept clean.

WARNING: Failure to position the parts in accordance with these diagrams, or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.
AVERTISSEMENT: Risque de dommages ou de blessures si les pièces ne sont pas installées conformément à ces schemas et ou si des pièces autres que celles spécifiquement aprouvées avec cet appareil sont utilisées.

INSTALLING THE APPLIANCE

Separate the hanging bracket from the appliance by removing two screws on the top and two nuts at the bottom.

INSTALLING THE HANGING BRACKET ON A NON-COMBUSTIBLE WALL (i.e., MASONRY BLOCK OR CONCRETE)

1. Draw the position of the hole for the air-vent intake pipe, taking into account the minimum clearances mentioned in figure 4. See diameter of the hole "D" and height to the center "C" in table 1 and figure 5 for the different models. Height "C" is the minimum recommended.

INSTALLATION (CONTINUED)

TABLE1

MODEL	C	D
DVEL 8N - DVEL 8L	19 ½ (495 mm)	6 ¾ (172 mm)
DVEL 12N - DVEL 12L	19 ½ (495 mm)	7 ¾ (197 mm)
DVEL 20N - DVEL 20L	19” (483 mm)	8 ¾ (222 mm)

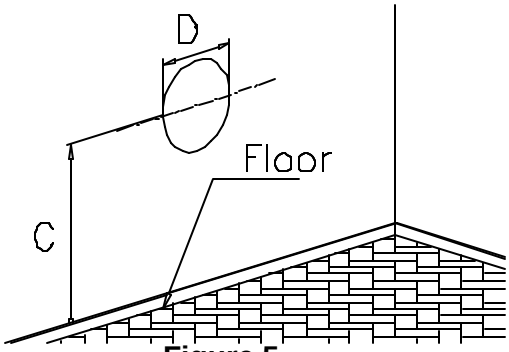


Figure 5

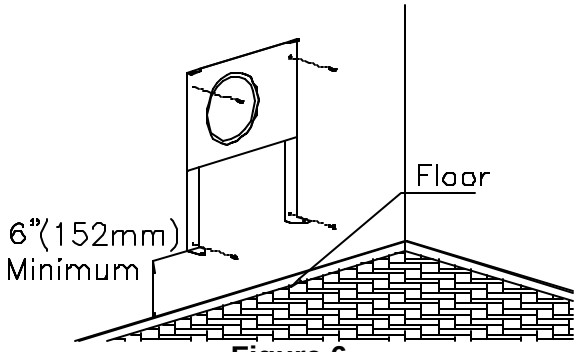


Figure 6

2. Drill through the wall according to measurements and positions indicated.
3. Place hanging bracket over the hole. After leveling the hanging bracket, mark the four holes as shown in figure 6.
4. Remove the hanging bracket and drill the four holes.
5. Insert in each hole the anchors provided.
6. Place back the hanging bracket and fix it with four screws.

INSTALLING THE HANGING BRACKET ON A WOODEN WALL

1. Taking into account the minimum clearances mentioned in figure 4, locate the closest wall stud (which will serve to hold the appliance) and mark the hole center at a distance “A”, (if wall stud is at the right), or “B”, (if the stud is at the left). See table 2 and figures 7 and 8.
2. Draw the position of the hole for the vent-air intake pipe. See diameter of the hole “D” and height to the center “C” in table 2 for the different models. Height “C” is the minimum recommended.

TABLE 2

MODEL	A	B	C	D
DVEL 8N - DVEL 8L	5 9/16” (141 mm)	3 31/32” (101 mm)	19 ½ (495 mm)	6 ¾ (172 mm)
DVEL 12N - DVEL 12L	7 13/16” (198 mm)	5 7/16” (138 mm)	19 ½ (495 mm)	7 ¾ (197 mm)
DVEL 20N - DVEL 20L	13 11/64” (335 mm)	10 7/8” (276 mm)	19” (483 mm)	8 ¾ (222 mm)

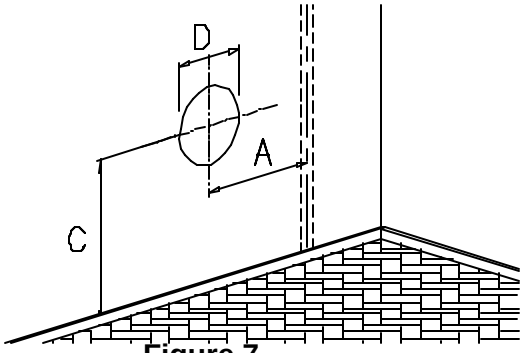


Figure 7

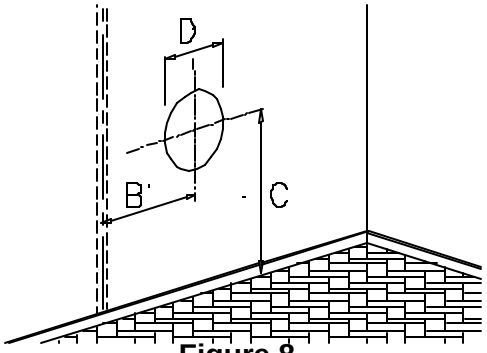


Figure 8

INSTALLATION (CONTINUED)

3. Drill through the wall according to measurements and positions indicated.
4. Place wall bracket over the hole. After leveling the hanging bracket, mark the four holes as shown in figures 9 and 10.

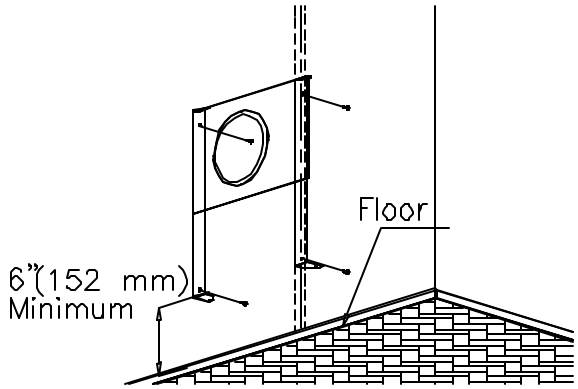


Figure 9

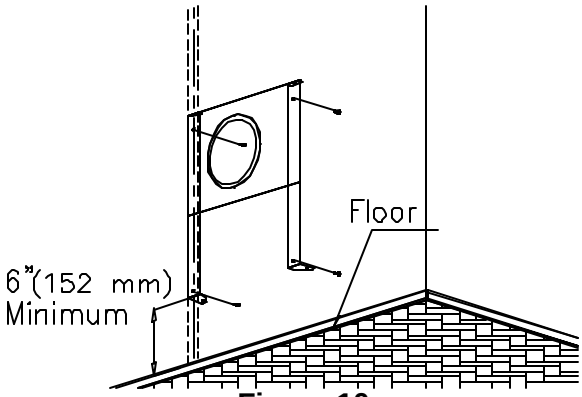


Figure 10

5. Remove the hanging bracket and drill the four holes.
6. Insert in each hole the anchors provided.
7. Place back the hanging bracket and fix it with four screws.

MOUNTING THE HEATER ON HANGING BRACKET

Place the heater on the hanging bracket and fix it with its screws. (See Figure 11 and 12).

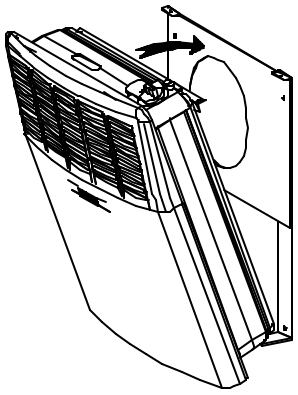


Figure 11

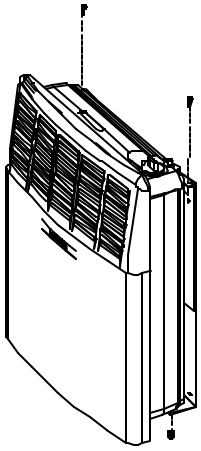


Figure 12

ATTENTION:

THE ATTACHED SET OF THREE MARKING PLATES (RATING PLATE, OPERATION INSTRUCTIONS, AND SAFETY PLATE) MUST NOT BE REMOVED FROM THE APPLIANCE AT ANY TIME.

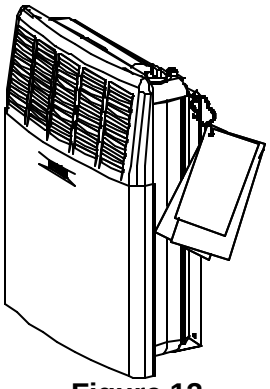


Figure 13

INSTALLATION (CONTINUED)

INSTALLING THE VENTING SYSTEM

These models of wall furnaces are designed for direct venting through a wall.
Only venting components specifically approved for these furnaces may be used.
The flow of combustion gases and ventilation air must not be obstructed.
Minimum clearance between pipes and combustible materials is one (1) inch (25.4 mm).

Vent terminal must be 18.0" away from an adjacent wall.
Minimum clearance between vent cap and combustible material 1 ¾

IMPORTANT: The appliance's venting system should be inspected at least once a year and immediately cleaned if necessary.

IMPORTANT: THE VENT-AIR INTAKE SYSTEM MUST BE PROPERLY INSTALLED TO INSURE PROPER AND SAFE OPERATION. THE VENT-AIR INTAKE SYSTEM MUST ALSO BE PROPERLY RE-INSTALLED AND RE-SEALED TO INSURE PROPER AND SAFE OPERATION.

Warning: Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.
Avertissement: Risque de dommages ou de blessures si les pièces ne sont pas installées conform´ment à ces schémas et ou si des pièces autres que celles spécifiquement approuvées avec cet appareil sont utilisées.

CAUTION: ALL JOINTS MUST BE AIR-TIGHT.

The venting system consists of: one injected-aluminum cap (A), one vent pipe (B), one vent-air intake pipe (C), one rod (D), one nut (E), one outdoor mounting plate (F) and one silicon-rubber ring (G). (See figure 14).

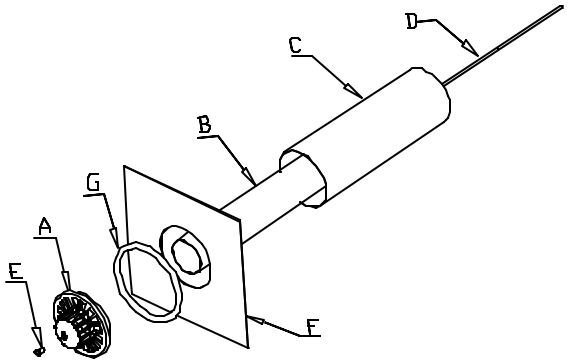


Figure 14

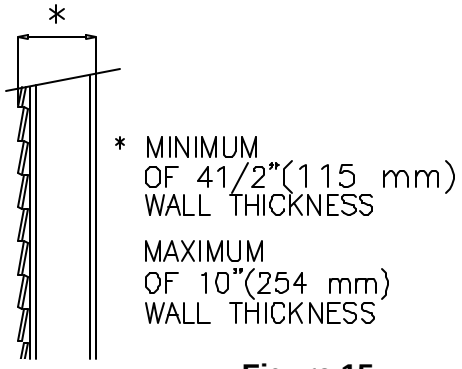


Figure 15

1. Measure thickness of the wall as shown in figure 15.
2. If pipes (B), (C) and the rod are long, trim them according to thickness of the wall, as shown in the following table.

TABLE 3
Lengths of pipes and rod.

vent pipe (B)	vent-air intake pipe (C)	Rod (D)
wall thickness + 3 3/8" (86 mm)	wall thickness + 2 1/2" (64 mm)	wall thickness + 5 7/8" (149.5 mm)

3. The hole at the outside of the wall must be a square of 11 ½ (290 mm) x 11 ½ (290 mm). (See figure 17).
4. From the outside of the wall, screw the rod slightly onto support located inside the appliance flue outlet.
5. Slide pipes (B) and (C) through the hole in the wall, and connect them to the appliance flue outlet and air intake, respectively.
6. The outdoor mounting plate and the silicon-rubber ring should be installed between the vent cap and the exterior wall. The plate must be positioned flush to the wall and with its standoffs inserted into the wall and sealed with a non-hardening mastic (silicone caulk). (See figure 17).
   Position the outdoor mounting plate so that the vent-air intake pipe has a slight downward slope to the outside. **The downward slope is necessary to prevent the entry of rainwater.**

INSTALLATION (CONTINUED)

7. Before attaching the vent cap to the exterior wall, run a bead of non-hardening mastic (silicone caulk) around its outside edge, so as to make a seal between it and the plate. (See figure 17).
8. Place cap and screw nut “E”, until cap leans against the plate. (See figures 16 and 17).

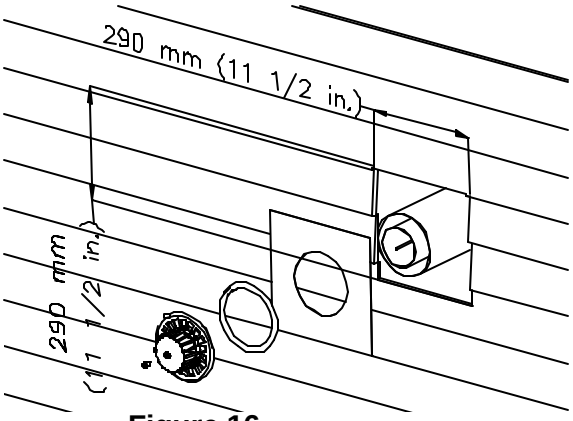


Figure 16

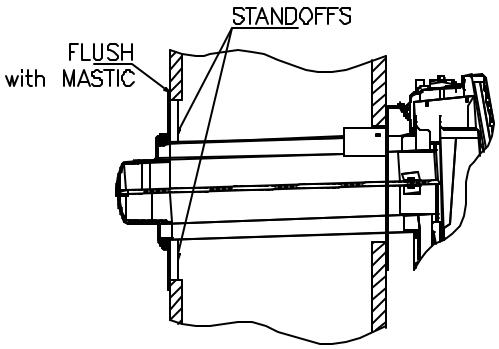


Figure 17

INSTALLING THE THERMOSTAT SENSOR (MODELS DVEL12 AND DVEL20)

In order to protect the thermostat sensor from any damage during shipping, or while handling it before it is definitely installed, the thermostat sensor has not been attached to its final location in the appliance.
So, once the heater is installed, the thermostat sensor must be placed and secured in position. To do so, follow these steps:

1. Separate the front panel of the appliance by removing the two nuts in the bottom and sliding it up as shown in figure 18.

2. Place the thermostat sensor under the right bottom of the bracket and fix it with the same nut that fixes the appliance to bracket as shown in figures 19 and 20

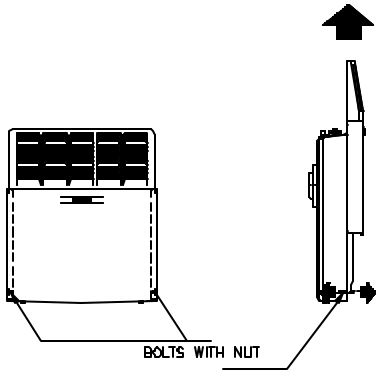


Figure 18

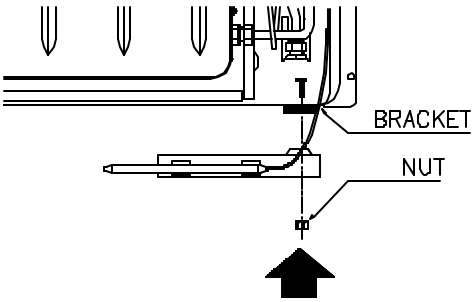


Figure 19

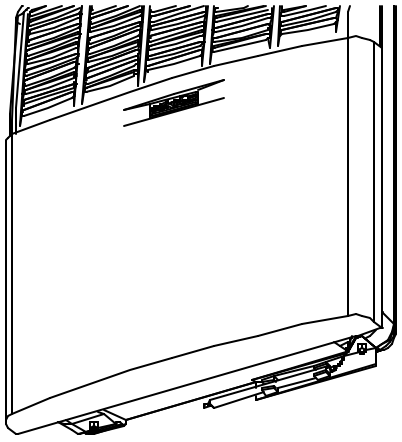


Figure 20

GAS PIPING

Gas Connection

1) We recommend using only new black iron or steel pipe. **CHECK LOCAL CODES.**
2) The gas supply line shall be sized and installed to provide a sufficient supply of gas to meet the maximum demand of the heater without undue loss of pressure.
3) The sealant used on the threaded joints of the gas pipe must be a type resistant to the action of L.P.Gas. (This sealant should be applied lightly to main threads to ensure excess sealant does not enter lines.)
4) The supply system must include a manual shut off valve and connection in the line, so the heater can be disconnected for servicing. (See Figure 21).
5) Include a drip leg (trap) and a plugged 1/8" N.P.T. tapping in the line. The tapping should be accessible for test gauge connections upstream of the gas supply connection to the heater.

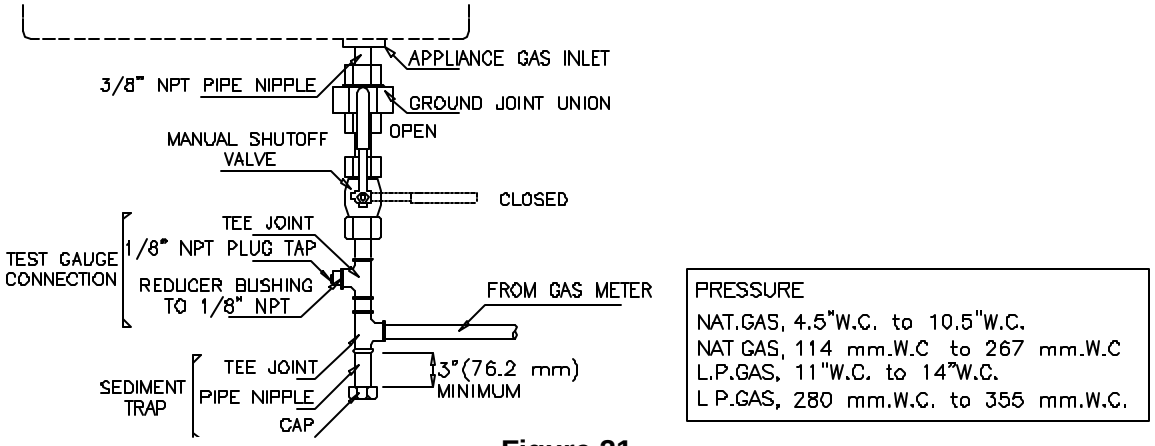


Figure 21

WARNING: For L.P.Gas, use **PRESSURE REGULATED** gas supply. Do not directly connect LP supply tank to the pressure regulator on the heater. The LP supply tank must have its own separate pressure regulator that can reduce the supply tank gas pressure down to a maximum of 14 inches (355 mm) of water column pressure.

IMPORTANT: Hold the gas inlet of the appliance with wrench when connecting it to gas piping and/or fittings.

CHECK AFTER GAS CONNECTION

WARNING: All gas piping and connections must be tested for leaks after installation or servicing. All leaks must be corrected immediately.

1. Make sure the control of the heater is in the "OFF" position.
2. Open the manual shut off valve. Test for leaks by applying liquid detergent to all joints. Check all joints from gas meter to thermostat gas valve. (Bubbles forming indicate a gas leak)
3. Correct any leak defect at once.

GAS PIPING (CONTINUED)

CAUTION: NEVER USE AN OPEN FLAME TO CHECK FOR LEAKS

Pressure testing supply line

ATTENTION: This appliance and its appliance main gas valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of ½psi (3,5 kPa).
The appliance must be isolated from the gas supply piping system by closing equipment shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than ½psi (3,5 kPa).

OPERATION

Read the following instructions carefully (you can also find them on the plates attached to the heater back):

Lisez attentivment les instructions suivantes (vous les trouverez aussi les plaques jointes sur la partie derrière de l'appareil).

FOR YOUR SAFETY READ BEFORE LIGHTING

WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

A. This appliance has a pilot which must be lighted by hand. When lighting the pilot, follow these instructions exactly.

B. BEFORE LIGHTING smell all around the apoliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS
Do not try to light any appliance.
Do not touch any electric switch; do not use any phone in your building.
Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
If you cannot reach your gas supplier, call the fire department.

C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.

D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

LIRE AVANT D'ALLUMER

AVERTISSEMENT: Quiconque ne respecte pas à la lettre les instructions dans le présent manuel isque de déclencher un incendie ou une explosion entraînant des dommages matériels, des lésions corporelles ou la perte de vies humaines.

A. Cet appareil est muni d'une veilleuse qui doit être allumée manuellement. Respecter les instructions ci-dessous à la lettre.

B. Avant d'allumer la veilleuse, renifler tout autour de l'appareil pour déceler une odeur de gaz. Renifler près du plancher, car certains gaz sont plus lourds que l'air et peuvent s'accumuler au niveau du sol.

QUE FAIRE S'IL Y A UNE ODEUR DE GAZ:
- Ne pas tenter d'allumer l'appareil.
- Ne touchez aucun interrupteur électrique; n'utiliser aucun téléphone dans bâtiment. Appeler immédiatement le fournisseur de gaz en employant le téléphone d'un voisin.
- Respecter à la lettre les instructions du fournisseur de gaz.
- Si personne ne répond, appeler le service des incendies.

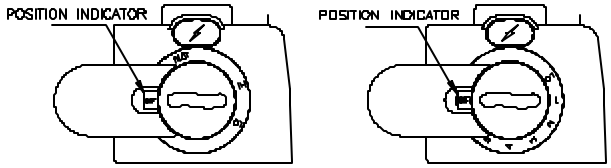
C. Ne pousser ou tourner la manette d'admission du gaz qu'à la main; ne jamais employer d'outil à cet effet. Si la manette reste coincée, ne pas tenter de la réparer; appeler un technicien qualifié. Quiconque tente de forcer la manette ou de la réparer peut déclencher une explosion ou un incendie.

D. Ne pas se servir de cet appareil s'il a été plongé dans l'eau, complètement ou en partie. Appeler un technicien qualifié pour inspecter l'appareil et remplacer toute partie du système de contrôle et commande qui aura été plongée dans l'eau.

OPERATION (CONTINUED)

LIGHTING INSTRUCTIONS

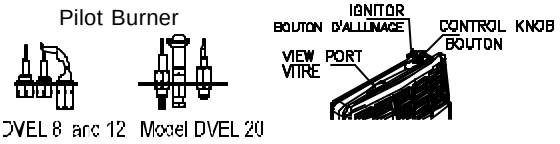
1. STOP! Read the safety information on the attached plate.
2. Check that gas supply to heater is on.
3. Push in gas control knob slightly and turn clockwise ↷ to "OFF" position. Do not force.



Model DVEL 8 Model DVEL 12 and 20

NOTE: Knob cannot be turned from "PILOT" to "OFF" unless knob is pushed in slightly. Do not force.

4. Wait five (5) minutes to clear out any gas. If you then smell gas, STOP! Follow "B" in the safety information above this label. If you don't smell gas, go to the next step.
5. Find pilot. The pilot can be seen through the view port on the top of the appliance.



Model DVEL 8 and 12 Model DVEL 20

6. Turn gas control knob counterclockwise ↶ to "PILOT".
   Keep control knob depressed and continuously push the white piezo button.
   This should cause the spark from the ignitor to light the pilot gas. Keep control knob depressed for ten (10) seconds before releasing. If Pilot does not light, repeat step 6.
   NOTE: It may be necessary to press for thirty (30) seconds if this is first time heater is connected to the gas supply.
   If the knob does not pop up when released, stop and immediately call your service technician or gas supplier.
   If the pilot will not stay lit after several tries, turn the gas control knob to "OFF" and call your service technician or gas supplier.
7. When pilot is lit, turn the control knob counterclockwise ↶ to desired heating level.

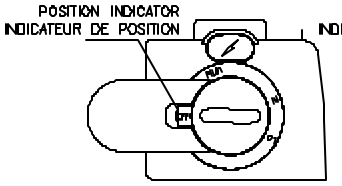
TO TURN OFF GAS TO APPLIANCE

1. Turn control knob clockwise ↷ to the "OFF" position. Do not Force.

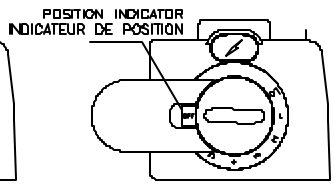
CAUTION:Wait five (5) minutes before re-lighting heater.

ALLUMAGE

1. ARRÊTER! Lisez les instructions de sécurité sur la portion supérieure de cette étiquette.
2. Vérifire que la fourniture de gaz à l'apoareil de chauffage soit ouverte.
3. Appuyez doucement sur le bouton et tournez-le en direction des aiguilles d'une montre jusqu'à la position "OFF" (Fermée). Ne la forcez pas.



Model DVEL 8

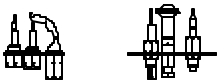


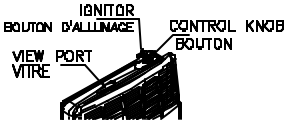
Model DVE_ 12 and 20

NB: On ne peut tourner le bouton depuis la position "PILOT" (Veilleuse) jusqu'à la position "OFF" (Fermée) que si l'on appuie doucement. Ne la forcez pas.

4. Attendre cinq (5) minutes pour laisser échapper tout le gaz. Renifler tout autour de l'appareil, y compris près du plancher, pour déceler une odeur de gaz. Si c'est le cas. ARRÊTER! Passer a l'étape B des instructions de sécurité sur la portion supérieure de cette étiquette. S'il n'y a pas d'odeur de gaz, passer à l'étape suivante.
5. Trouvez la veilleuse : elle peut être vue à travers la petite vitre sur la partie supérieure de l'appareil.

Veilleuse


Model DVE_ 8 and 12 Mocel DVEL 20



6. Tournez le bouton en direction contraire aux aiguilles d'une montre jusqu'à la position "PILOT" (Veilleuse). Appuyez sur le bouton d'allumage. Ceci doit provoquer l'étincelle qui va allumer le gaz de la veilleuse. Continuez à appuyer sur le bouton pendant dix secondes.
Si la veilleuse ne s'allume pas, répétez le pas No. 6.

NB: Si c'est la première fois que le chauffage est connecté au réseau de gaz, il peut être nécessaire d'appuyer sur le bouton pendant trente secondes.

Si la manette ne se soulève pas d'elle-même lorsqu'on la relâche, arrêter et appeler immédiatement un technicien qualifié ou le fournisseur de gaz.

Si la veilleuse ne reste pas allumée après plusieurs tentatives, régler la manette d'admission du gaz à la position OFF et appeler un technicien qualifié ou le fournisseur de gaz.

7. Quand la veilleuse est allumée, tournez le bouton dans le sens contraire aux aiguilles d'une montre jusqu'à le niveau désiré.

POUR COUPER L'ADMISION DE GAZ DE L'APPAREIL

1. Tournez le bouton dans la direction des aiguilles d'une montre jusqu'à la position "OFF" (Fermée).

ATTENTION: Attendez cinq (5) minutes avant de rallumer l'appareil.

OPERATION (CONTINUED)

CAUTION
Do not try to adjust heating levels by using the manual shutoff valve.

IMPORTANT

- Do not dry clothes over the heater.
- Do not spray any aerosol near the heater when functioning. Do not store these elements near the appliance.
- Do not touch grill to avoid burns.
- Avoid blocking air inlet and hot air outlet.
- Do not spill water over the heater as it may cause corrosion or damage.
- Do not touch vent cap while heater is operating, to avoid burns.
- If you smell gas, shut off control valve, open doors and windows and do not light any electrical fixture near the heater. Call your Gas Supplier.

NOTE: It is normal for the new wall furnace to give some odor the first time it is burned. This is due to the curing of the paint and any undetected oil from the manufacturing process.
It is recommended to burn a new wall furnace for at least two (2) hours the first time that it is used.

CLEANING AND MAINTENANCE

WARNING

Turn off heater and let cool before cleaning.

CAUTION

You must keep control areas and circulating air passageways of heater clean. Inspect these areas of heater before each use. Have heater inspected yearly by a qualified service person. Heater may need more frequent cleaning due to excessive lint from carpeting, bedding material, etc.

Verify proper operation after servicing.

S'assurer que l'appareil fonctionne adéquatement une fois l'entretien terminé.

CABINET

Exterior
Use a soft cloth dampened with a mild soap and water mixture. Wipe the cabinet to remove dust.

Air Passageways
Use a vacuum cleaner or pressurized air to clean.

Vent Cap
Use a vacuum cleaner or pressurized air to clean.

Pilot and Burner
Periodically visually check the pilot and burner flames.
(View flames through view port)

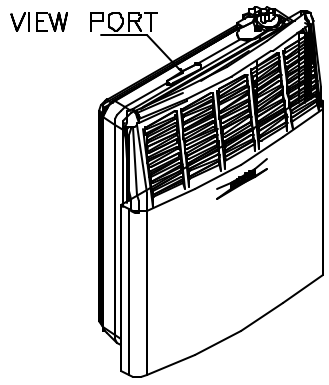


Fig. 22

The correct flame pattern should be viewed by looking through the view port on top of the unit (Fig. 22).
The correct flame pattern of pilot and main burner are shown in figures 23, 24, 25 and 26.

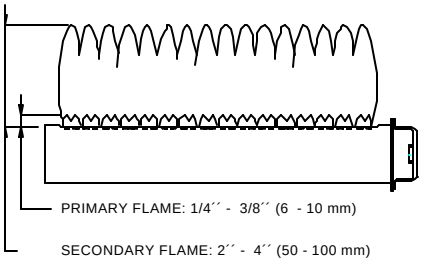
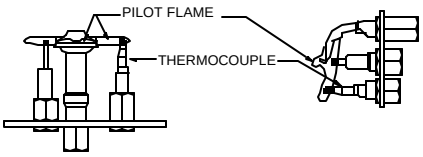


Fig. 23
Correct main burner flame pattern



Model DVEL 20

Models DVEL 8 and 12

Fig. 24
Correct pilot burner flame pattern

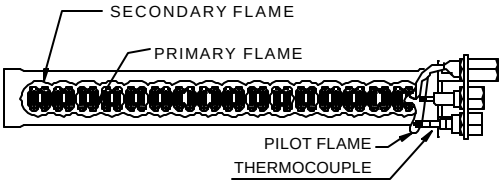


Fig. 25
Correct main burner flame pattern (top view)
Models DVEL 8 and 12

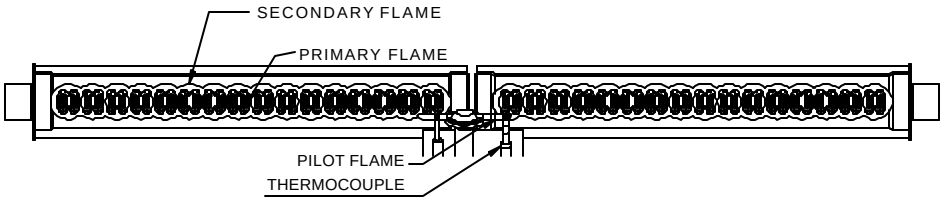


Fig. 26
Correct main burner flame pattern (top view)
Model DVEL 20

Cleaning the Main Burner Orifice and Main Burner

1. Turn OFF gas supply to the heater.
2. Remove casing assembly.
3. Disconnect burner tubing and remove orifice holder.
4. Apply compressed air the orifice holder assembly to remove dust, lint or spider webs.
5. Apply compressed air through the hole on the combustion chamber wall where the orifice holder was originally located to remove dust, lint or spider webs.
6. As parts are being replaced in reverse order, check for gas leaks at all gas connections before replacing the casing assembly.

TROUBLESHOOTING

WARNING

Turn off heater and let cool before servicing. Only a qualified service person should service and repair heater.

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
When ignitor button is pressed, there is no spark at pilot.	1) Ignitor electrode broken.	1) Replace ignitor electrode.
	2) Ignitor electrode not connected to ignitor cable.	2) Reconnect ignitor cable.
	3) Ignitor cable pinched or wet.	3) Free ignitor cable if pinched by any metal or tubing. Keep ignitor cable dry.
	4) Broken ignitor cable.	4) Replace ignitor cable.
	5) Bad piezo ignitor.	5) Replace piezo ignitor.
When ignitor button is pressed, there is spark at pilot but no ignition.	1) Gas supply is turned off or manual shutoff valve closed.	1) Turn on gas supply or open manual shutoff valve.
	2) Control knob not in PILOT position.	2) Turn control knob to PILOT position.
	3) Control knob not pressed in while in pilot position.	3) Press in control knob while in PILOT position.
	4) Air in gas lines when installed.	4) Continue holding down control knob. Repeat igniting operation until air is removed.
	5) Pilot is clogged.	5) Clean pilot orifice or replace pilot assembly.
	6) Gas regulator setting not correct.	6) Replace gas regulator.
Pilot lights but flame goes out when control knob is released.	1) Control knob not fully pressed in.	1) Press in control knob fully.
	2) Control knob not depressed long enough.	2) After pilot lights, keep control knob pressed in 30 seconds.
	3) Manual shutoff valve not fully open.	3) Fully open manual shutoff valve.
	4) Thermocouple connection looses at control valve.	4) Hand tighten until snug, then tighten ¼turn more.
	5) Pilot flame not touching thermocouple, which allows couple to cool, causing pilot flame to go out. This problem could be caused by one or both of the following: **a)** Low gas pressure. **b)** Dirty or partially clogged pilot.	5) **a)** Contact local gas company. **b)** Clean pilot or replace pilot assembly.
	6) Thermocouple damaged.	6) Replace thermocouple.
	7) Control valve damaged.	Replace control valve.

TROUBLESHOOTING (CONTINUED)

Burner does not light after pilot is lit.	1) Burner orifice is clogged.	1) Clean burner orifice or replace burner orifice.
	2) Burner orifice diameter is too small.	2) Replace burner orifice.
	3) Inlet gas pressure is too low.	3) Contact local Gas Company.
Delayed ignition of burner.	1) Manifold pressure is too low.	1) Contact local Gas Company.
	2) Burner or pilot orifice is clogged.	2) Clean burner or pilot orifice or replace it.
Burner backfiring during combustion.	1) Burner orifice is clogged or damaged.	1) Clean burner orifice or replace it.
	2) Gas regulator defective.	2) Replace gas regulator.
Yellow flame during burner combustion.	1) Inlet pipe is blocked.	1) Remove the blockage.
	2) Incorrect connections of pipes.	1) Connect pipes according to installation instructions.
	3) Gas regulator defective	1) Replace gas regulator.
Slight smoke or odor during initial operation.	1) Residues from manufacturing processes.	1) Problem will stop after a while of operation.
Heater produces a whistling noise when burner is lit.	1) Turning control knob to HI position when burner is cold.	1) Turn control knob to LO position and let warm up for a minute.
	2) Air in gas line.	2) Operate burner until air is removed from line. Have gas line checked by local Gas Company.
	3) Dirty or partially clogged burner orifice.	3) Clean burner orifice or replace it.
Heater produces a clicking/ticking noise just after burner is lit or shut off.	1) Metal expanding while heating or contracting while cooling.	1) This is common with most heaters. If noise is excessive, contact qualified service person.
Heater produces unwanted odors.	1) Gas leak (see WARNING statement below).	1) Locate and correct all leaks (see Checking Gas Connections, page 12)
Heater shuts off in use.	1) Low line pressure.	1) Contact local Gas Company.
	2) Pilot is partially clogged.	2) Clean pilot.
Gas odor even when control knob is in OFF position.	1) Gas leak. See WARNING statement below.	1) Locate and correct all leaks (see Checking Gas Connections, page 12)
	2) Control valve defective.	2) Replace control valve.

TROUBLESHOOTING (CONTINUED)

WARNING

If you smell gas:

- **Shut off gas supply.**
- **Do not try to light any appliance**
- **Do not touch any electrical switch, do not use any phone in your building.**
- **Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.**
- **If you cannot reach your gas supplier, call the fire department.**

SERVICE AND MAINTENANCE

WARNING
Turn off heater and let cool before servicing.

Verify proper operation after servicing.

REPLACEMENT PARTS

NOTE: In order for you to receive credit for parts replaced under warranty, only original replacements parts must be returned the authorized distributor.

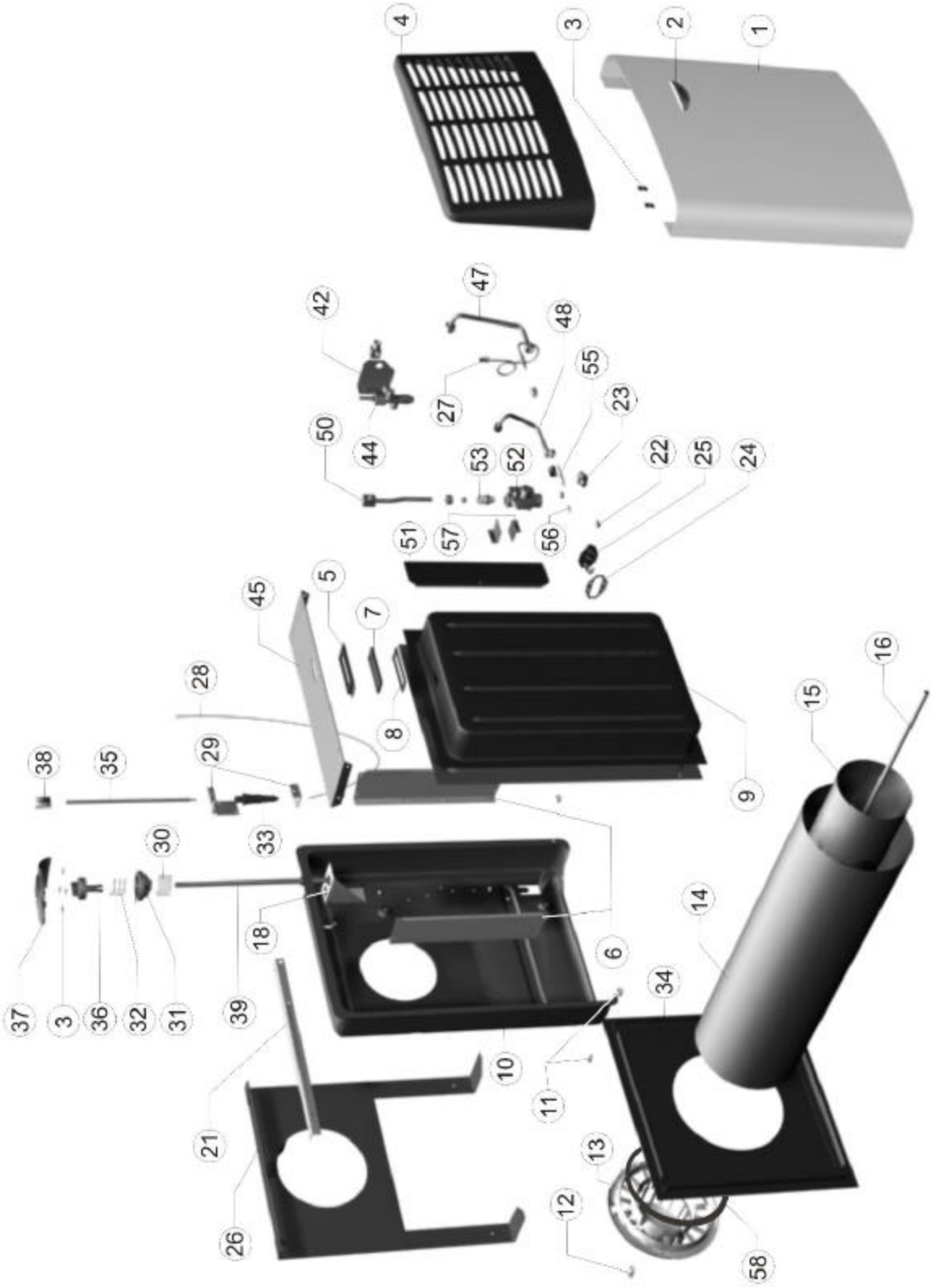
A) UNDER WARRANTY:
Contact authorized dealers of this product. If they are unable to supply original replacement part(s), call the authorized distributor. Be prepared to indicate name, address, model number, and how heater was malfunctioning, type of gas used and purchase date. In most cases, the defective part will be requested to be returned to the authorized distributor.

B) NOT UNDER WARRANTY:
Contact authorized dealers of this product. If they are unable to supply original replacement part(s), call the authorized distributor. Be prepared to indicate model number and replacement part(s) number.

When calling the authorized distributor have ready:

- model number of your heater
- the replacement part number

Authorized Distributor in USA and Canada:	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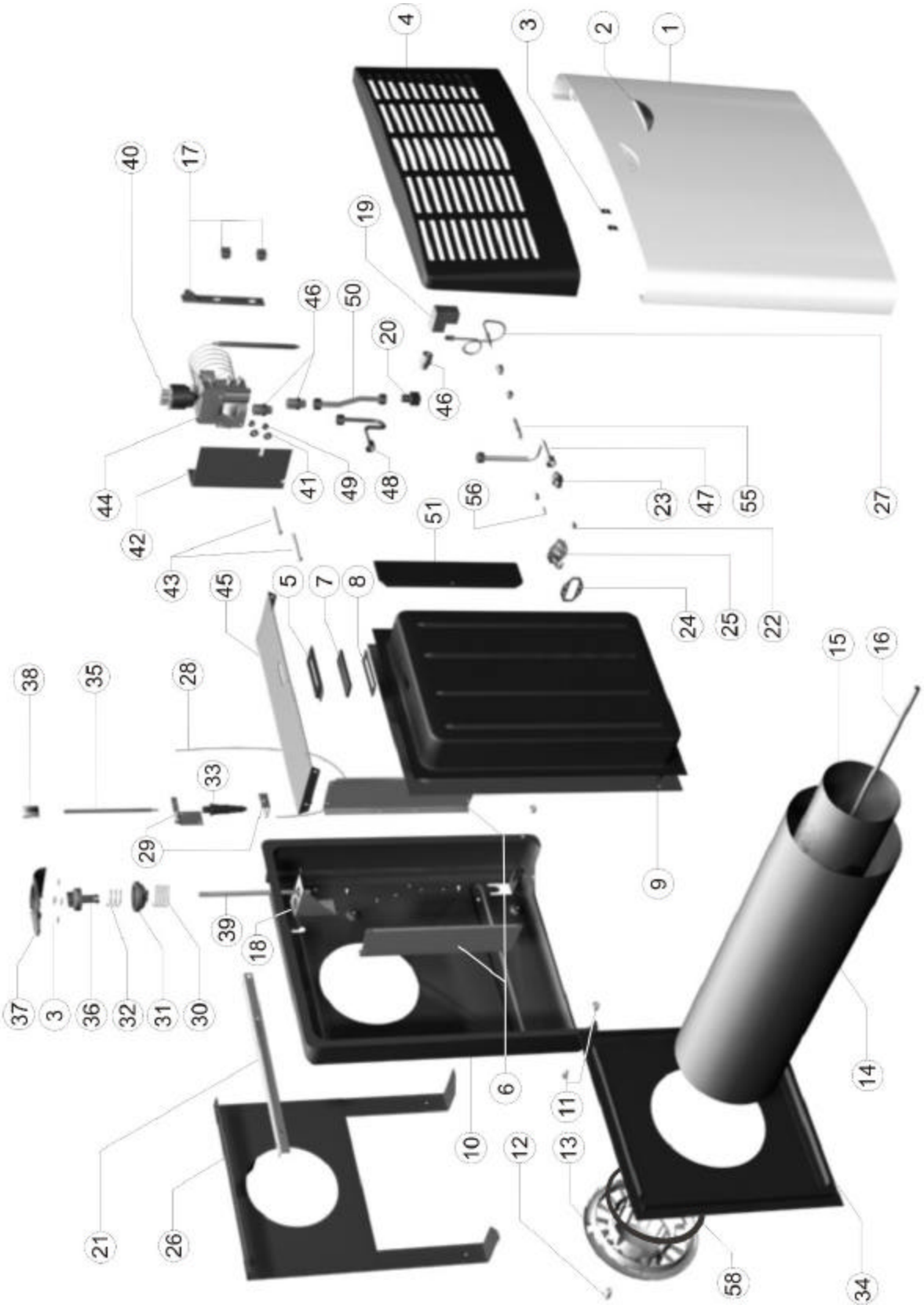
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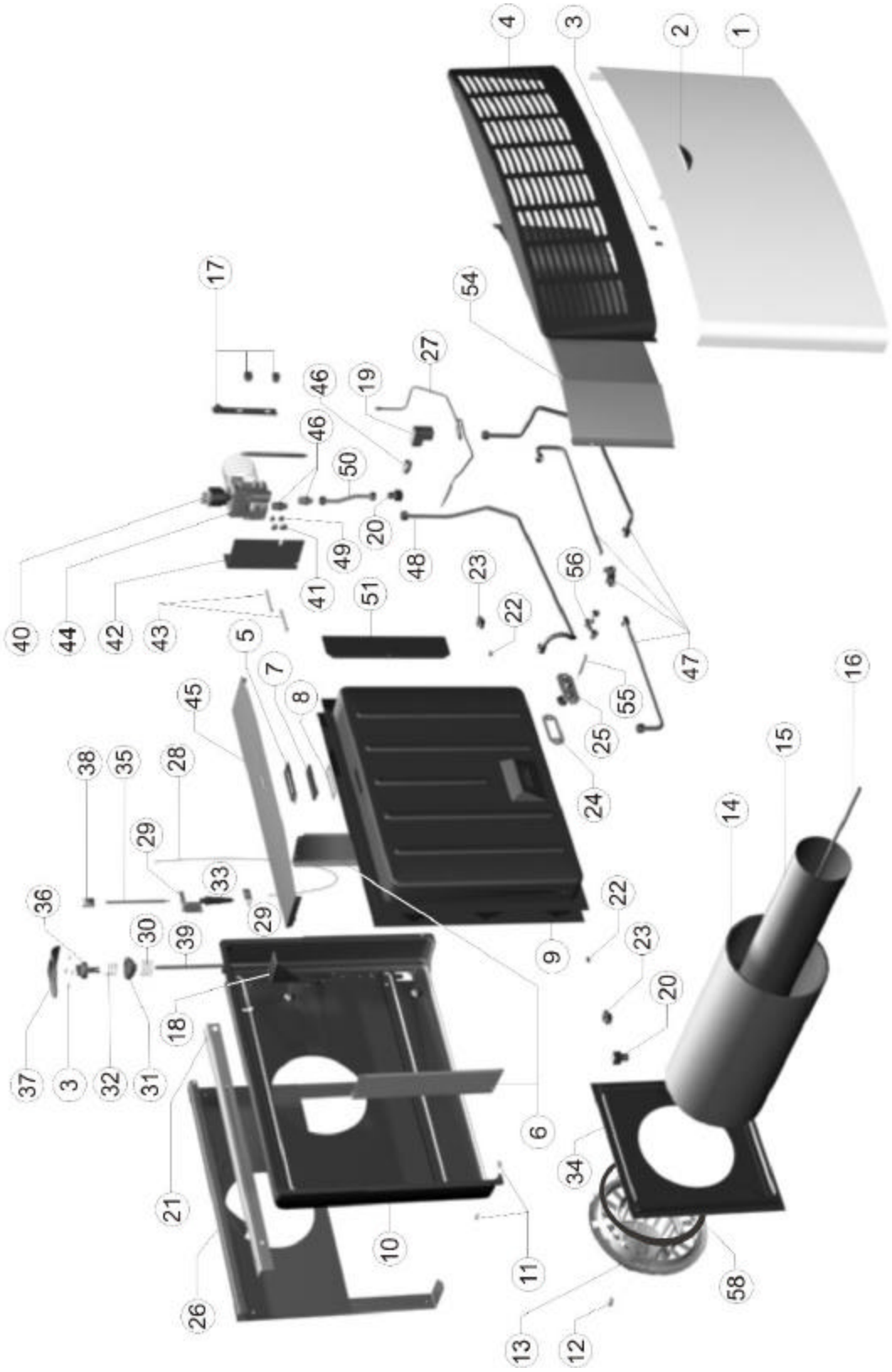
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PARTS LIST

ITEM No.	PARTS No.			DESCRIPTION
	DVEL 8	DVEL 12	DVEL 20	
1	05070	05220	05325	Front panel
2	02380101B			Mark
3	01196101A			Nut
4	05146	05262	05359	Grill guard
5	05046			Glass frame
6	05090			Lateral radiation shield
7	01212001			Glass
8	01090001			Gasket
9	05175	05277	05386	Combustion chamber
10	05075	05225	05330	Back
11	01192701 - 01190801B			Bolt and nut
12	01193602			Nut
13	010210C	01021001C	01021002C	Vent cap
14	05089	05245	05256	Vent-air intake pipe
15	05134	05251	05338	Vent pipe
16	01212401			Rod
17	--	05232 - 01001901A		Thermostat Sensor bracket
18	05078			Knob support
19	--	01021307		Elbow 3/8 NPT x 3/8 NPT
20	--	01021301		Elbow 1/4 BSP x 1/4 BSP
21	05083	05228	05334	Bracket
22	01082001 01081403	02230113 01082102	01082002 01081403	Burner orifice Natural Gas Burner orifice L.P.G.
23	01141502			Injector holder
24	01143309	01143309	01090002	Pilot gasket
25	011433 011433	011433 011433	01021713D 01021714D	Pilot assembly Natural Gas Pilot assembly L.P.G.
26	05152	05267	05385	Hanging bracket
27	01143301C	01194202	01194205	Thermocouple
28	02340101	01143130	01022111B	Ignitor wire
29	05170			Piezo-ignitor bracket
30	01160503			Spring
31	01001808	01001807A		Knob position marking ring
32	01160502			Spring
33	01051402			Piezo-ignitor
34	05113	05266	05387	Outdoor mounting plate

PARTS LIST (CONTINUED)

ITEM No.	PARTS No.			DESCRIPTION
	DVEL 8	DVEL 12	DVEL 20	
35	02220702	02220705		Ignitor rod
36	01140701D			Control Knob
37	02100117E			Control panel
38	01140908C			Ignitor button
39	012123B	01212301		Knob rod
40	---	01210603		Adapter
41	---	010003		Washer
42	05096	05097		Gas control valve bracket
43	---	01190403		Bolt
44	01210408G 01210404G	05269 05268	05364 05363	Gas control Valve Natural Gas Gas control Valve L.P.G.
45	05137	05257	05376	Top Radiation Shield
46	---	01160902		Nipple 1/4 BSP x 3/8 NPT
47	02830110B	02830138B	02830140	Burner tubing
48	02830109B	02830137B	02830141B	Pilot tubing
49	---	011935A		Nut
50	01024001	02830139A		Gas main inlet tubing
51	05087	05240		Radiation shield
52	01052001 01052002	--	--	Pressure Regulator Natural Gas Pressure Regulator L.P.Gas
53	01160901	--	--	Pressure Tap Fitting
54	--	--	05355	Front radiation shield
55	01143302		02330101	Spark plug
56	01143127 01143306		01080406 01080405	Pilot burner orifice Natural Gas Pilot burner orifice LPG
57	05100 - 05101	---	---	Pressure regulator bracket
58	05066	05201	05246	Silicon-rubber ring

Authorized Distributor in USA and Canada:	

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